

INTERNATIONAL SEARCH REPORT

International application No.

PCT/SE 03/01254

A. CLASSIFICATION OF SUBJECT MATTER

IPC7: F42B 5/18, F41B 6/00, F42B 33/00
According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC7: F42B, F41B

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

SE,DK,FI,NO classes as above

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

EPO-INTERNAL, WPI DATA, PAJ

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	US 3688697 A (B.E. PAUL ET AL), 5 Sept 1972 (05.09.72) --	1-25
A	US 4709636 A (D. MUELLER ET AL), 1 December 1987 (01.12.87) --	1-25
A	DE 3927400 A1 (RHEINMETALL GMBH), 21 February 1991 (21.02.91) --	1-25
A	DE 19741842 A1 (RHEINMETALL W & M GMBH), 25 March 1999 (25.03.99) --	1-25

☒ Further documents are listed in the continuation of Box C.☒ See patent family annex.

* Special categories of cited documents:

"A" document defining the general state of the art which is not considered to be of particular relevance

"B" earlier application or patent but published on or after the international filing date

"L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)

"O" document referring to an oral disclosure, use, exhibition or other means

"P" document published prior to the international filing date but later than the priority date claimed

"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention

"X" document of particular relevance: the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone

"Y" document of particular relevance: the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art

"&" document member of the same patent family

Date of the actual completion of the international search

14 October 2003

Date of mailing of the international search report

11.6.2003

Name and mailing address of the ISA/

Swedish Patent Office

Box 5055, S-102 42 STOCKHOLM

Facsimile No. +46 8 666 02 86

Authorized officer

Jörgen Klöfver / MRo

Telephone No. +46 8 782 25 00

INTERNATIONAL SEARCH REPORT

International application No.

PCT/SE 03/01254

C (Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT		
Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	DE 19741839 A1 (RHEINMETALL W & M GMBH), 25 March 1999 (25.03.99) --	1-25
A	US 5133240 A (S. THIESEN ET AL), 28 July 1992 (28.07.92) -- -----	1-25

INTERNATIONAL SEARCH REPORT

Information on patent family members

06/09/03

International application No.

PCT/SE 03/01254

Patent document cited in search report			Publication date	Patent family member(s)	Publication date
US	3688697	A	05/09/72	NONE	
US	4709636	A	01/12/87	DE 3334026 A DE 3481724 D EP 0149718 A,B	04/04/85 00/00/00 31/07/85
DE	3927400	A1	21/02/91	NONE	
DE	19741842	A1	25/03/99	NONE	
DE	19741839	A1	25/03/99	NONE	
US	5133240	A	28/07/92	DE 3939295 A DE 59003692 D EP 0429753 A,B US 5289776 A US 5400714 A	29/05/91 00/00/00 05/06/91 01/03/94 28/03/95